

# Monthly Weather Review

## Contents

Vol. 139, No. 1, January 2011

### ARTICLES

► Three-Dimensional Characteristics of Stratospheric Mountain Waves during T-REX .....	JAMES D. DOYLE, QINGFANG JIANG, RONALD B. SMITH, AND VANDA GRUBIŠIĆ	3–23
Regionalization in Fine-Grid GFS MOS 6-h Quantitative Precipitation Forecasts .....	JEROME P. CHARBA AND FREDERICK G. SAMPLATSKY	24–38
High-Resolution GFS-Based MOS Quantitative Precipitation Forecasts on a 4-km Grid .....	JEROME P. CHARBA AND FREDERICK G. SAMPLATSKY	39–68
◆ Forecast Impact of Targeted Observations: Sensitivity to Observation Error and Proximity to Steep Orography .....	E. A. IRVINE, S. L. GRAY, J. METHVEN, AND I. A. RENFREW	69–78
A Technique for Dynamically Downscaling Daily-Averaged GCM Datasets Using the Conformal Cubic Atmospheric Model .....	MARCUS THATCHER AND JOHN L. MCGREGOR	79–95
Development of a Coupled Groundwater–Atmosphere Model .....	REED M. MAXWELL, JULIE K. LUNDQUIST, JEFFREY D. MIROCHA, STEVEN G. SMITH, CAROL S. WOODWARD, AND ANDREW F. B. TOMPSON	96–116
■ What Constrains Spread Growth in Forecasts Initialized from Ensemble Kalman Filters? .....	THOMAS M. HAMILL AND JEFFREY S. WHITAKER	117–131
A Coupled Atmosphere–Wave–Ocean Modeling System: Simulation of the Intensity of an Idealized Tropical Cyclone .....	BIN LIU, HUIQING LIU, LIAN XIE, CHANGLONG GUAN, AND DONGLIANG ZHAO	132–152
Intercomparison of Ground-Based Velocity Track Display (GBVTD)-Retrieved Circulation Centers and Structures of Hurricane Danny (1997) from Two Coastal WSR-88Ds .....	SHIRLEY T. MURILLO, WEN-CHAU LEE, MICHAEL M. BELL, GARY M. BARNES, FRANK D. MARKS JR., AND PETER P. DODGE	153–174
The World Wide Lightning Location Network and Convective Activity in Tropical Cyclones .....	SERGIO F. ABARCA, KRISTEN L. CORBOSIERO, AND DAVID VOLLAZO	175–191
The Influence of Eastern Pacific Tropical Cyclone Remnants on the Southwestern United States .....	ELIZABETH A. RITCHIE, KIMBERLY M. WOOD, DAVID S. GUTZLER, AND SARAH R. WHITE	192–210
Radiometer and Profiler Analysis of the Effects of a Bore and a Solitary Wave on the Stability of the Nocturnal Boundary Layer .....	TIMOTHY A. COLEMAN AND KEVIN R. KNUPP	211–223
The Analysis and Prediction of the 8–9 May 2007 Oklahoma Tornadic Mesoscale Convective System by Assimilating WSR-88D and CASA Radar Data Using 3DVAR .....	ALEXANDER D. SCHENKMAN, MING XUE, ALAN SHAPIRO, KEITH BREWSTER, AND JIDONG GAO	224–246
● Observations of Elevated Convection Initiation Leading to a Surface-Based Squall Line during 13 June IHOP_2002 .....	JOHN H. MARSHAM, STANLEY B. TRIER, TAMMY M. WECKWERTH, AND JAMES W. WILSON	247–271
Ensemble Kalman Filter Assimilation of Radar Observations of the 8 May 2003 Oklahoma City Supercell: Influences of Reflectivity Observations on Storm-Scale Analyses .....	DAVID C. DOWELL, LOUIS J. WICKER, AND CHRIS SNYDER	272–294
On the Effect of Correlations on Rank Histograms: Reliability of Temperature and Wind Speed Forecasts from Finescale Ensemble Reforecasts .....	CAREN MARZBAN, RANRAN WANG, FANYOU KONG, AND STEPHEN LEYTON	295–310
On the Reliability of the Rank Histogram .....	D. S. WILKS	311–316
► Special Collection: <i>Terrain-Induced Rotor Experiment (T-REX)</i>		
◆ Special Collection: <i>The Third International THORPEX Science Symposium</i>		
■ Special Collection: <i>Intercomparisons of 4D-Variational Assimilation and the Ensemble Kalman Filter</i>		
● Special Collection: <i>IHOP Boundary Layer Processes</i>		